

**Abstract**

A separation level is formed between the heavy phase and the light phase in a gravitational sedimentation basin. In the case of a centrally arranged inlet construction, said inlet has a substantially horizontally cross-flown cross-section, whereby the level of said cross-section can be continuously adapted to the separation level. Optionally, the vertical dimension of the cross-section of the inlet can also be adjusted. The inlet can also be arranged on the edge, where it can be adapted to the separation level either continuous or in stages. By adaptively adjusting the inlet, the mixing behavior of the suspension flow is improved, whereupon the separation performance of the sedimentation basin and the discharge quality is also improved.